From:
 Bill Jacobs

 To:
 Jenny Seifert

 Cc:
 Jennifer Gaines

Subject: RE: Bait Station Prototype Date: 07/22/2009 04:17 PM

Thank Jennifer, too. Shortening the lid to the slide model was her idea.

▼ "Jenny Seifert" ---07/22/2009 04:14:47 PM---Dear Bill, Thank you for the indepth response to our stations. I believe that you

From: "Jenny Seifert" < jseifert@neogen.com>

qualify for

resist

To: Bill Jacobs/DC/USEPA/US@EPA

Date: 07/22/2009 04:14 PM Subject: RE: Bait Station Prototype

> Dear Bill, Thank you for the in-depth response to our stations. I believe that you have highlighted many of the specific areas that I felt might have been of concern and with this information I believe we can bring the prototypes into a better version of themselves. Jenny Jennifer J. Seifert Manager, Regulatory Affairs Hacco, Inc.; a Neogen Company; DBA HACCO, Inc. Hess & Clark, Inc. 920-326-2461 920-326-5135, fax www.Hacco.com ----Original Message----From: Jacobs.Bill@epamail.epa.gov [mailto:Jacobs.Bill@epamail.epa.gov] Sent: Wednesday, July 22, 2009 3:09 PM To: Jenny Seifert Subject: RE: Bait Station Prototype We have examined the two prototype mouse-sized bait stations that vou submitted on April 27, 2009. For convenience, we will refer to the unit with the transparent top and the sprung slide arrangement designed to close off the bait compartment if the station is lifted as the "slide" model and to the other unit as the "all-gray" model. In your letter, you state that you believe that both of the units would meet the "Tier II" criteria indicated in EPA's rodenticide risk mitigation decision of May, 2008. You also note that the prototypes supplied were constructed of "materials ... not as strong as the final materials" presumably to be used for production models. To

Tier 2, ready-to-use rodenticide stations must be shown to

tampering efforts by dogs and by young children in the age range use to

test child-resistant packaging (42-51 months). Tier 2 stations are to

be labeled for indoor use only.

As your letter of April 27, 2009, addressed each of the 8 criteria for tamper-resistant bait stations with regard to your prototypes, we follow that format in our reply.

Criterion 1

As noted below and by you, the prototypes were not constructed of strong materials. Whether weather would weaken those materials further could be discussed, but the weather-resistance criterion does not apply to Tier 2 stations because their labels prohibit outdoor use.

Criterion 2

The prototypes seemed highly unlikely to withstand efforts by children and dogs to break the stations. Although stronger materials of construction could improve this situation, especially with respect to young children, some design changes may be in order.

Applying what seemed to us to be relatively gentle forces, we broke both units at points associated with their locking mechanisms and also pushed a thumb through the top of the all-gray model at its thinnest point.

Criterion 3

Both units have locking mechanisms, but both mechanisms were compromised through our manipulations. In both cases, lifting up on the lid of the station at or slightly in front of the rodent entrances created sufficient to break the top of the all-gray model at its locking (screw-in) point and to separate the screw housing from the base of the The main problem is the relatively long span slide unit. between the top's rear attachment (presumably to be achieved via a "living hinge" rather than clear tape on production models) and the single locking point at the front of the station. Having two or more locking points or fully nesting the station's top into its base could address the span However, the fact that the top of the unit also is the problem. top of the rodent entrance would mean that it still would be easy to pull upward on the top of the station even if it were nested in the base elsewhere.

On the slide unit, It might be possible to shorten the length of the span between the front locking mechanism and the hinge by moving the hinge location forward by extending the dark gray portion (molded with the base) up over the top of the station and having it end above the

sliding arm. At that point, the hinge could be created so only front part of the top of the unit could be lifted. Making this alteration also would allow for strengthening the rodent entrance area and reducing the size of the opening (see below). This change would allow you to add a solid piece of plastic over the sliding sleeve to keep in on track better when the sleeve is slid into place, thereby improving the reliability of the slide's performance. Additional locking points also could be added to the now-smaller moveable lid. With the lid no longer being above the rodent entrances, children and pets would be deprived of the ability to tug upward on the lid The trick to this arrangement would be to develop a entrances. top-located hinge of sufficient strength. The same type of modification also might work with the all-gray design.

The bottom-up arrangement for insertion of the screw would make it impossible to refill the units without removing them from a secured state. We note that the slide model seems intended to be used unsecured, with the slide functioning to isolate the bait compartment if the station is lifted.

Criterion 4

The baffling incorporated into the design of the all-gray model adequate to deny children reach-in access to bait compartments via the rodent entrance holes. On the slide model, the distance between rodent entrance and the opening to the bait compartment is "borderline" to the distance that a CRP-aged child could reach with a finger i f unable to get the whole hand into the station. The rodent entrance holes on both units seem slightly larger than would be needed to admit wild-type house mice, including pregnant females. Reducing the size of the entrances could reduce the chances of young children getting a hand into the unit. If you haven't already, you might want to try different entrance sizes and designs in local areas infested with house mice.

Criterion 5

The flat bottom to the all-gray model would facilitate its being secured using two-sided foam tape (which is an excellent approach to use on cleanable flat surfaces). For other surfaces, an arrangement to screw or bolt the station to a substrate could be incorporated to the design, but that arrangement would have to pass completely through the station if its up-from-the-bottom locking arrangement is retained.

The slide model seems designed not to be secured, with the slide mechanism closing off the bait compartment if the unit is